

Curriculum Vitae

Personal Information

Name Ana Catarina Pelicano
Date of Birth *August 30th, 1996*
Affiliation Instituto de Biofísica e Engenharia Biomédica (IBEB),
Faculdade de Ciências da Universidade de Lisboa (FCUL)
Address Campo Grande, 1749-016 Lisbon, Portugal
Email acpelicano@ciencias.ulisboa.pt
Mobile +351 927 680 149



Education

- 2020–now **PhD Degree in Biomedical Engineering and Biophysics**,
Medical Microwave Imaging of the Breast - reference UI/BD/150762/2020
IBEB, FCUL, Portugal
- 2014–2020 **Integrated BSc+MSc Degree in Biomedical Engineering and Biophysics**,
FCUL, Portugal - Grades: BSc (15/20) + MSc (17/20)

Experience

- 2020-now **Microwave Imaging Researcher**, *IBEB, Lisbon, Portugal.*
- 2018–2020 **Internship (Masters Research Project)**, *IBEB, Lisbon, Portugal*
- 2017 **Internship (Bachelors Research Project)**, *Institute of Sensors, Signals and Systems, Heriot-Watt University, Edinburgh, Scotland, UK*

Journal Publications

- 2021 Pelicano et al. **Development of 3D MRI-Based Anatomically Realistic Models of Breast Tissues and Tumours for Microwave Imaging Diagnosis**, *Sensors*, 21, 8265. doi:10.3390/s21248265.
- 2020 Pelicano, A.C.; Conceição, R.C. **Development of a 3D anthropomorphic phantom generator for Microwave Imaging applications of the head and neck region**, *Sensors*, 20(7):2029. doi:10.3390/s20072029.

Conference Publications

- 2023 Pelicano, A.C. et al. **Repository of Anthropomorphic Models of the Breast Including Normal Tissues, and Benign and Malignant Tumors for Microwave Imaging Research**, 17th European Conference on Antennas and Propagation (EuCAP), Florence, Italy. (accepted)
- 2022 Pelicano, A.C.; Araújo, N.A.M.; Conceição, R.C. **Preliminary Development of Anatomically Realistic Breast Tumor Models for Microwave Imaging**, 16th European Conference on Antennas and Propagation (EuCAP), Madrid, Spain. doi: 10.23919/EuCAP53622.2022.9769591
- 2020 Pelicano, A.C.; Conceição, R.C. **Head and neck numerical phantom development for cervical lymph node Microwave Imaging**, 14th European Conference on Antennas and Propagation (EuCAP) in convened session CS60 Sensors and Systems for Microwave Biomedical Imaging and Sensing, Copenhagen, Denmark. doi:10.23919/EuCAP48036.2020.9135898.

Projects & Grants

Projects

- 2020-2022 **European Network for Advancing Electromagnetic Hyperthermic Medical Technologies (MyWAVE) Project**. European Cooperation in the field of Scientific and Technical Research (COST) National, University of Malta, Malta.

- 2018-2020 **Masters Project.** "Modelling the Head and Neck Region for Microwave Imaging of Cervical Lymph Nodes", IBEB, FCUL, Lisbon, Portugal.
- 2019 **Project.** "Modelling and 3D printing three different regions of the brain (white and gray matter, the cerebellum and a blood clot) for imaging tests.", Instituto Superior Técnico (IST), Lisbon, Portugal.
- 2017 **Bachelors Project.** "Statistical Analysis of Biomedical Data for Tumor Monitoring", Heriot-Watt University, Edinburgh, Scotland, UK.

Grants

- 2022 **COST Action: MyWAVE CA17115.**, "Closing meeting: Working groups & Management Committee meeting", Meeting, Istanbul, Turkey
- 2022 **COST Action: MyWAVE CA17115.** "Diagnositc and therapeutic applications of electromagnetic fields", Training School , Rome, Italy
- 2022 **COST Action: MyWAVE ITC Conference Grant.** "Preliminary development of anatomically realistic breast tumor models for microwave imaging", 16th European Conference on Antennas and Propagation (EuCAP), Madrid, Spain - 1.000€.
- 2020 **PhD Scholarship - Medical Microwave Imaging of the Breast.** Reference: Fundação para a Ciência e Tecnologia (FCT) - UI/BD/150762/2020
- 2020 **COST Action: MyWAVE Short-Term Scientific Missions (STSM) Grant.** "Dielectric properties of biological tissues and electroporation to tackle new clinical applications", National University of Ireland Galway, Ireland (delayed due to COVID-19) - 2.500€.
- 2017 **Erasmus+ Grant.** "Statistical Analysis of Biomedical Data for Tumor Monitoring.", Heriot-Watt University, Edinburgh, Scotland, UK.

Awards

- 2022 **Sensors 2022 Travel Award in Intelligent Sensors and Smart Sensing.** Sensors MDPI
- 2022 **Best PhD work in Inovation, Health Systems and Digital Transformation.** Prémio ULisboa redeSaúde

Languages

Fluent: Portuguese and English; **Beginners level:** Spanish and French.

Skills

Technical skills

Advanced knowledge: Matlab, Python, iSeg, 3D Slicer, ITK-SNAP, MeshLab, Meshmixer, Preform, Microsoft Office tools such as Word, Excel and PowerPoint.

Intermediate Knowledge: Machine Learning, Data Mining, Data Science, Signal and Image Processing, R and LaTeX.

Basic Knowledge: Solidworks, Qlik and Paraview.

Personal skills

Leadership skills: representative of Biomedical Engineering and Biophysics PhD students.

Teamwork/Communication skills: collaborations with students and researchers in national and international research groups, organisation of scientific meetings and workshops, and participation in workshops, conferences and meetings.

Volunteer projects: volunteer work in "Projeto Golfinho" (4 years) and "Banco Farmacêutico" (1 year).